Wednesday, 1/18/2006 4:05:35 PM

User:

Kim Johnston

**Process Sheet** 

Customer

: CU-DAR001 Dart Helicopters Services

Job Number **Estimate Number**  : 25557D

: 10291

P.O. Number

:NIA

This Issue Prsht Rev. : 1/18/2006 : NC

: NIA

: 25442D

S.O. No. : NIA

Type

: MACHINED PARTS

SER COMMENT BELOW

: SER COMMENT BRIOW

**Drawing Number** Project Number

> **Drawing Revision** Material

**Drawing Name** 

**Part Number** 

**Due Date** 

: D3183044

: D3183 REV C1

: BRACKET ASSEMBLY

: N/A

: 2/15/2006

Qty:

Each 4 Um:

Written By

First Issue

**Previous Run** 

Checked & Approved By

Comment

: Est Rev:Pick:A 04.02.18 New issue KJ/DS

**Additional Product** 

Job Number:



Seq. #:

1.0

**Machine Or Operation:** 

Description:

M174B2000X01500



17-4 SS Bar



06/02/06

Comment: Qty.:

0.4812 f(s)/Unit Total:

Material: 17-4 SS Bar per AMS 5604/5643

(M17-4-B1.500x02.000) Identify for D3183-044 - 4

Batch: MI4773 BAND SAW

BAND SAW



Comment: BAND SAW 1.50

Cut blanks: (1:000" x 2.000") 5.500" long

3.0

2.0

HAAS1

HAAS CNC VERTICAL MACHINING #1



Comment: HAAS CNC VERTICAL MACHINING #1

1-Machine D3183-4 as per Folio FA322 and Dwg D3183 Identify as D3183-4

2-Deburr

3-Scribe batch number

4.0

QC2

Comment: INSPECT PARTS AS THEY COME OFF MACHINE

ms 06/02/06

4

## **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approvai QC Inspector		
Part No	): 	PAR #: Fault Category: I	NCR: Yes	No DQ	A: 2	<u>D</u> Date: <u>△</u>	×d02/0?		

QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_

NCR:			WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B	· · · · · · · · · · · · · · · · · · ·	Verification	Annewal	Ammerical		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
						1				
•	,			,						
•				, .						
				4						
		:								

NOTE: Date & initial all entries

Date: Wednesday, 1/18/2006 4:05:36 PM Kim Johnston User: **Process Sheet** Drawing Name: BRACKET ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Job Number: 25557D Part Number: D3183044 Job Number: Description: Seq. #: **Machine Or Operation:** SECOND CHECK 5.0 Comment: SECOND CHECK 4 36 D312121 Bolt 6.0 2.0000 Each(s)/Unit Total: 8.0000 Each(s) Comment: Qty.: **Qty Part Number** Description Batch Bolt 3 25456 2 D3121-21 7.0 D3183045 Bearing Assembly Comment: Qty.: 8.0000 Each(s) 2.0000 Each(s)/Unit Total: Pick: **Qty Part Number** Description Batch B 23974 2 D3183-045 Bearing Ass SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 Assemble D3183-043 as per Dwg D3183. INSPECT WORK TO CURRENT STEP 9.0 QC5 Comment: INSPECT WORK TO CURRENT STEP 4 36 PACKAGING 1 PACKAGING RESOURCE #1 10.0 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 11.0 DC DOCUMENT CONTROL Comment: DOCUMENT CONTROL c 06/02/09 Inspection Level 21 Job Completion

# **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #: Fault Category: NO	P. Ves	No DO	\	Date:	

				QA: N/	C Closed:	Date: _			
		WORK ORDER NON-CONFORMANCE (NCR)							
	Description of NC		Corrective Action Section B		Varification	A			
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector		
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	STEP	STED Description of NC	STEP Description of NC Section A Initial	STEP Description of NC Section A Initial Action Description	WORK ORDER NON-CONFORMANCE (NCR)  STEP  Description of NC Section A  Initial Action Description Sign &	WORK ORDER NON-CONFORMANCE (NCR)  STEP  Description of NC Section A  Initial Action Description Section C Section C	STEP Description of NC Section A Initial Action Description Sign & Verification Section C Chief Eng		

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	25557D
Description: Bracket	Part Number:	D3183-4
Inspection Dwg: D3183 Rev: C		Page 1 of 1

# FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

Drawing	Tolerance	Actual	Accept	Reject	Method of	Comments
Dimension	lolerance	Dimension	Accept	Reject	Inspection	
R0.190	+/-0.030					
R0.063	+/-0.010					
0.182	+/-0.010					
0.070	+/-0.010					
0.100	+/-0.010					
Ø0.201 x 0.100	+/-0.010					
0.182	+/-0.010					
5.32	+/-0.030					
5.036	+/-0.010					
2.120	+/-0.010					
1.290	+/-0.010					
0.365	+/-0.010					
0.218	+/-0.010				100	D
1.030	+/-0.010				5440	
1.90	+/-0.030			<u> </u>		
1.012	+/-0.010		0	مي ر	<b>x x Q</b>	
Ø0.201 x 0.100	+/-0.010		ne		VV>	4
0.182	+/-0.010				9chos	
0.786	+/-0.010		,	0	20,1	NP .
Ø0.392	+0.002/-0.000		( <	June	7 Bon	
R0.19	+/-0.030			NA	2,1	ne)
3.954	+/-0.010			10		
0.162	+/-0.010					
R0.19	+/-0.030					
R0.25	+/-0.030					
4.26	+/-0.030					
2.800 Calculated dimension	+/-0.030					
0.162	+/-0.010					
0.615	+/-0.010					
0.435	+/-0.010					
0.200	+/-0.010					
0.381	+/-0.010					
0.032	+/-0.010					

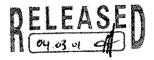
Measured by:	Audited by:	BG	Prototype Approval:	N/A
Date:	Date:	06.02.07	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	03.11.12	New Issue P/O D3183-044	KJ/RF	
В	04.03.15	Changes as per revision C	KJ/JLM/RF	
С	04.06.15	Dimension 2.800 was 2.080; removed 1.155, 0.36 dimensions	KJ/JLM	



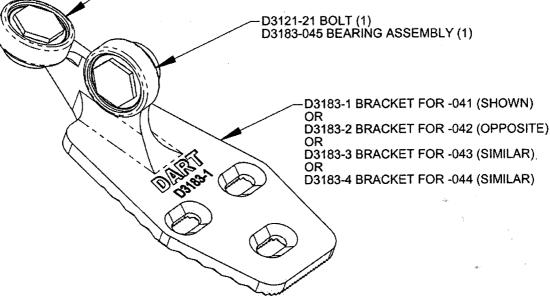


DESIGN	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CA	LTD ANADA
CHECKED	APPROVED	DRAWING NO. D3183	REV. ( SHEET 1 OF
DATE		TITLE	SCALI
04.	02.17	BRACKET ASSEMBLY	1:

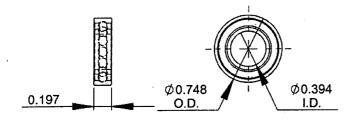


	04.02.17	BRACKET ASSEMBLY	
Α	03.01.24	NEW ISSUE	
В	03.06.17	REMOVE BEARING; 1.012 WS 0.882	
С	,04.02.17	ADD -045/-9; 0.182 WAS 0.431	
CI	-4 34 04.11.09	0.830 WAS 0.850	

D3121-21 BOLT (1) D3183-045 BEARING ASSEMBLY (1)

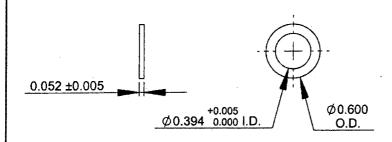


D3183-041 BRACKET ASSEMBLY (SHOWN)
D3183-042 BRACKET ASSEMBLY (OPPOSITE
D3183-043 BRACKET ASSEMBLY (SIMILAR)



### **D3183-5 BEARING:** SPECIFICATION CONTROL DRAWING

- 1) SINGLE ROW, DEEP GROOVE, CONRAD TYPE, SHIELDED 2) POSSIBLE SUPPLIER: NSK P/N 6800ZZ
- 3) ALL DIMENSIONS ARE IN INCHES



## **D3183-7 WASHER**

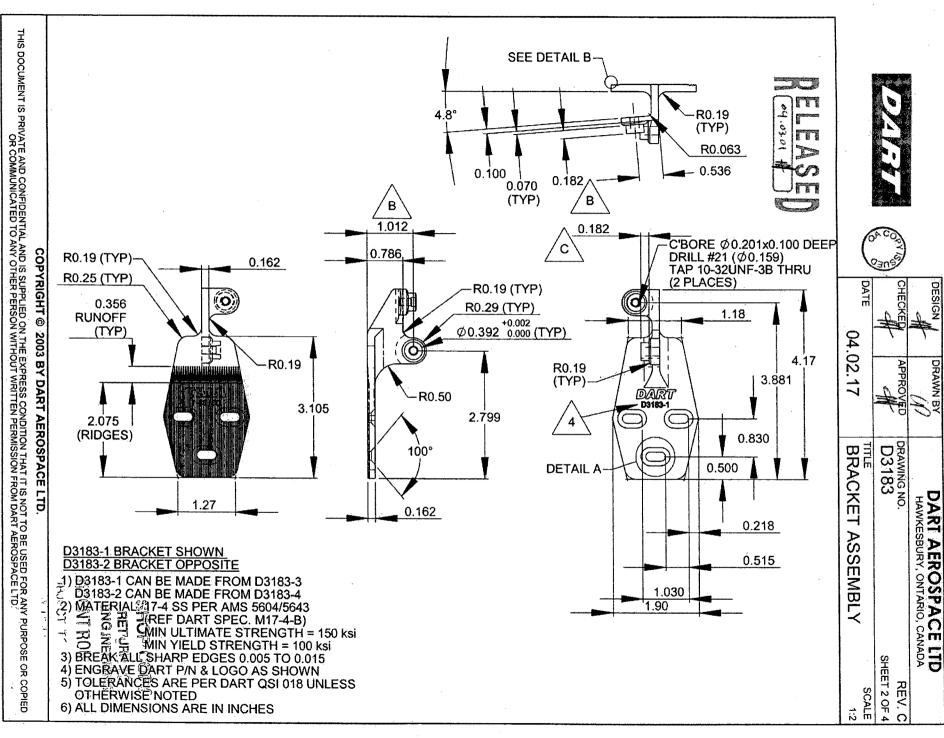
- 1) MATERIAL: AISI 303 ROUND BAR (M303R) **ANNEALED**
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
  3) TOLERANCES ARE PER DART QS101811 COPY
  UNLESS OTHERWISE NOTED RETURN TO
- RETURN TO 4) ALL DIMENSIONS ARE IN INCHES ENG INEERING

MONT ROLLED COPY

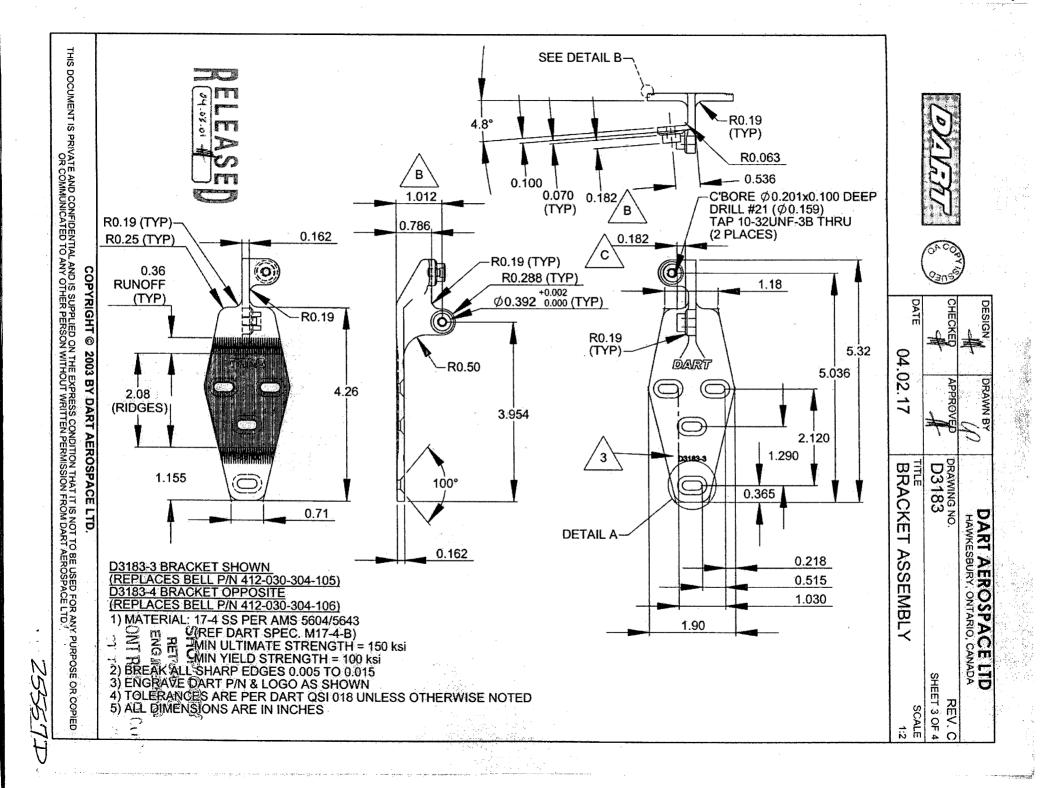
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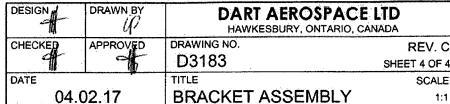
T TO AMEND MEN

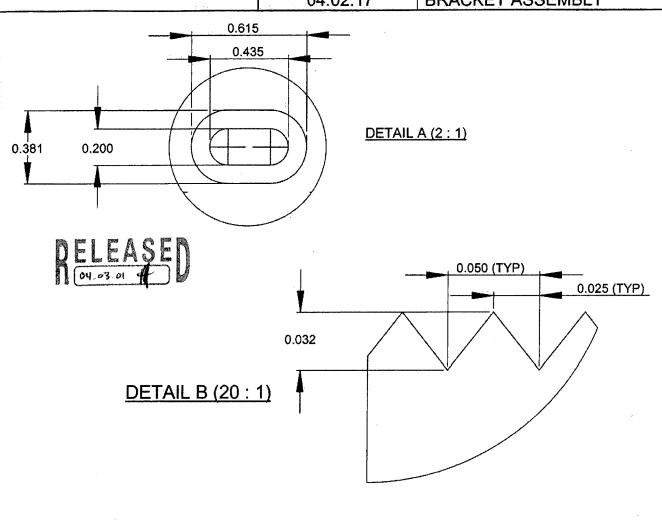


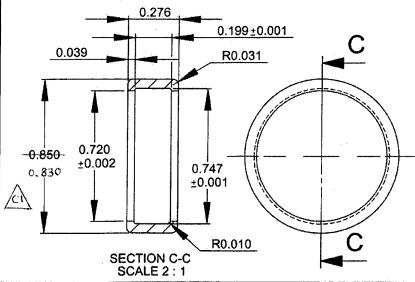
25557I











#### D3183-9 CAP

- 1) MATERIAL: DELRIN ROD, Ø1.00 (REF DART SPEC. M-DELRIN-R1.00)
- 2) TOLERANCES ARE PER DART QSI 018 **UNLESS OTHERWISE NOTED**
- 3) ALL DIMENSIONS ARE IN INCHES

### D3183-045 BEARING ASSEMBLY

1) ASSEMBLE D3183-5 BEARING AND D3183-9 CAP NG INEERING

TROLLED COPY

FIRST NUTICE

TO AMENDMENT

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